



PTO-144

Application No.
10/041,018

Applicant(s)
Seiichi P.T. Matsuda, et al.

**Information Disclosure Citation
in an Application**

Docket Number
002376.0992

Group Art Unit
1652

Filing Date
1-07-2002

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A.	4849410	07-18-1989	R. Jacobs, et al.	514	33	08-14-1987
<input type="checkbox"/>	B.	5151352	09-29-1992	H. Nakano, et al.	435	123	09-30-1991
<input type="checkbox"/>	C.	5189187	02-23-1993	H. Nakano, et al.	549	548	06-24-1992
<input type="checkbox"/>	D.	5589581	12-31-1996	N. Misawa, et al.	536	23.2	03-10-1994
<input type="checkbox"/>	E.	5602184	02-11-1997	C. Myers, et al.	514	739	03-03-1993
<input type="checkbox"/>	F.	5637484	06-10-1997	Y. Yukimune, et al.	435	123	11-09-1994
<input type="checkbox"/>	G.	5429939	07-04-1995	N. Misawa, et al.	435	67	10-23-1991
<input type="checkbox"/>	H.	5473057	12-05-1995	W. Fenical, et al.	536	17.3	11-09-1994
<input type="checkbox"/>	I.	5968789	10-19-1999	Y. Yukimune, et al.	435	123	02-28-1997
<input checked="" type="checkbox"/>	J.	6235287	05-22-2001	M. Weidner, et al.	424	195.1	01-08-1999

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<input type="checkbox"/>	K.							

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	L.	Albrecht, M., et al., <i>Synthesis of atypical cyclic and acyclic hydroxy carotenoids in Escherichia coli transformants</i> , Journal of Biotechnology 58 (1997) 177-185.	09-22-1997
<input type="checkbox"/>	M.	Bailey, James E., <i>Toward a Science of Metabolic Engineering</i> , Science, New Series, Volume 252, Issue 5013, 1668-1675.	06-21-1991
<input type="checkbox"/>	N.	Basson, Michael E., et al., <i>Identifying Mutations in Duplicated Functions in Saccharomyces cerevisiae: Recessive Mutations in HMG-CoA Reductase Genes</i> , Genetics, 117, 645-655.	12-1987
<input type="checkbox"/>	O.	Basson, Michael E, <i>Saccharomyces cerevisiae</i> contains two functional genes encoding 3-hydroxy-3-methylglutaryl-coenzyme A reductase, Proc. Natl. Acad. Sci. USA 83: 5563-57.	1986
<input type="checkbox"/>	P.	Corey, E.J., et al., <i>Isolation of an Arabidopsis thaliana gene encoding cycloartenol synthase by functional expression in a yeast mutant lacking lanosterol synthase by the use of a chromatographic screen</i> , Proc. Natl. Acad. Sci USA Vol. 90, pp. 11628-11632.	12-1993
<input type="checkbox"/>	Q.	Crowley, James H., et al., <i>A Mutation in a Purported Regulatory Gene Affects Control of Sterol Uptake in Saccharomyces cerevisiae</i> , Journal of Bacteriology, Vol 180, No. 16, p. 4177-4183.	08-1998
<input type="checkbox"/>	R.	Funk, Christoph, et al., <i>Diterpenoid Resin Acid Biosynthesis in Conifers: Characterization of Two Cytochrome P450-Dependent Monooxygenases and an Aldehyde Dehydrogenase Involved in Abietic Acid Biosynthesis</i> , Archives of Biochemistry and Biophysics, Vol. 308, No. 1, pp. 258-266.	01-1994
<input type="checkbox"/>	S.	Hara, Mitsunobu, et al., <i>Leinamycin, A New Antitumor Antibiotic From Streptomyces, Producing Organism, Fermentation and Isolation</i> , The Journal of Antibiotics, pp. 1768-1774.	12-1989
<input type="checkbox"/>	T.	Hezari, Mehri, et al., <i>Purification and Characterization of Taxa-4(5), 11(12)-diene Synthase from Pacific Yew (Taxus brevifolia) that Catalyzes the First Committed Step of Taxol Biosynthesis</i> , Archives of Biochemistry and Biophysics, Vol. 322, No. 2, pp. 437-444.	10-01-1995
<input checked="" type="checkbox"/>	U.	Jiang, Yu, et al., <i>BTS1 Encodes a Geranylgeranyl Diphosphate Synthase in Saccharomyces cerevisiae</i> , The Journal of Biological Chemistry, Vol. 270, No. 37, pp. 21793-21799.	09-15-1995

EXAMINER

DATE CONSIDERED

11/4/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



PTO-1449		Application No. 10/041,018		Applicant(s) Selichi P.T. Matsuda, et al.		
Information Disclosure Citation in an Application		Docket Number 002376.0992		Group Art Unit 1652		
				Filing Date 1-07-2002		
U.S. PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	NAME	CLASS	
	A.					
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NO.	DATE	COUNTRY	CLASS	
	B.					
NON-PATENT DOCUMENTS						
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE
	C.	Kajiwar, Susumu, et al., <i>Expression of an exogenous isopentenyl diphosphate isomerase gene enhances isoprenoid biosynthesis in Escherichia coli</i> , Biochem J., 324(Pt 2): 421-6.				06-01-1997
	D.	Kholodenko, Boris N., et al., <i>Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes</i> , Biotechnol Bioeng, 59(2):239-247.				07-20-1998
	E.	LaFever, Roy E., et al., <i>Diterpenoid Resin Acid Biosynthesis in Conifers: Enzymatic Cyclization of Geranylgeranyl Pyrophosphate to Abietadiene, the Precursor of Abietic Acid</i> , Archives of Biochemistry and Biophysics, Vol. 313. No. 1, pp. 139-149, 1994.				08-15-1994
	F.	Leak, Frank W., et al., <i>In Yeast, upc2-1 Confers a Decrease in Tolerance to LiCl and NaCl, Which Can Be Suppressed by the P-Type ATPase Encoded by ENA2</i> , DNA and Cell Biology, Vol. 18, No. 2, 1999 pp. 133-139.				1999
	G.	Learned, R. Marc, et al., <i>3-Hydroxy-3-methylglutaryl-coenzyme A reductase from Arabidopsis thaliana is structurally distinct from the yeast and animal enzymes</i> , Proc. Natl. Acad. Sci. USA Vol. 86, pp. 2779-2783.				04-1989
	H.	Lewis, T.L., et al., <i>Pleiotropic Mutations in Saccharomyces cerevisiae Affecting Sterol Uptake and Metabolism</i> , Yeast 4(2):93-106.				1988
	I.	Liu, Shuang-Jiang, et al., <i>A Novel Genetically Engineered Pathway for Synthesis of Poly (Hydroxyalkanoic Acids) in Escherichia Coli</i> , Applied and Environmental Microbiology, Vol. 66. No. 2, p. 739-743.				02-2000
	J.	Misawa, Norihiko, et al., <i>Production of B-Carotene in Zymomonas mobilis and Agrobacterium tumefaciens by Introduction of the Biosynthesis Genes from Erwinia uredovora</i> , Applied and Environmental Microbiology, Vol. 57, No. 6, p. 1847-1849.				06-1991
	K.	Misawa, Norihiko, et al., <i>Metabolic engineering for the production of carotenoids in non-carotenogenic bacteria and yeasts</i> , Journal of Biotechnology 59 (1998) 169-181.				1998
	L.	Misawa, Norihiko, et al., <i>Expression of a Tomato cDNA Coding for Phytoene Synthase in Escherichia coli, Phytoene Formation In Vivo and In Vitro, and Functional Analysis of the Various Truncated Gene Products</i> , J. Biochem, 116, 980-985 (1994).				1994
	M.	Miura, Yutaka, et al., <i>Production of Lycopene by the Food Yeast, Candida utilis That Does Not Naturally Synthesize Carotenoid</i> , Biotechnol Bioeng., 58(2-3): 306-8.				04-20-1998
	N.	Miura, Yutaka, et al., <i>Production of the Carotenoids Lycopene, B-Carotene, and Astaxanthin in the Food Yeast Candida utilis</i> , Applied and Environmental Microbiology, Vol. 64, No. 4, p. 1226-1229.				04-1998
	O.	Ness, Frederique, et al., <i>SUT1 is a putative Zn[II]2Cys6-transcription factor whose upregulation enhances both sterol uptake and synthesis in aerobically growing Saccharomyces cerevisiae cells</i> , Eur. J. Biochem. 268, 1585-1595.				02-2001
	P.	Parks, Leo W., et al., <i>Physiological Implications of Sterol Biosynthesis in Yeast</i> , Annu. Rev. Microbiol. 49:95-116.				1995
	Q.	Parks, Leo W., et al., <i>Biochemical and Physiological Effects of Sterol Alterations in Yeast-A Review</i> , Lipids Vol. 30 No. 3:227-230.				1995
	R.	Peters, Reuben J., et al., <i>Abietadiene Synthase from Grand Fir (Abies grandis) Characterization and Mechanism of Action of the "Pseudomature" Recombinant Enzyme</i> , Biochemistry 39: 15592-15602.				12-2000
	S.	Polakowski, T., et al., <i>Overexpression of a cytosolic hydroxymethylglutaryl-CoA reductase leads to squalene accumulation in yeast</i> , Appl Microbiol Biotechnol, 49:66-71.				1998
	T.	Ravn, Matthew M., et al., <i>Stereochemistry of the Cyclization-Rearrangement of (+)-Copalyl Diphosphate to (-)-Abietadiene Catalyzed by Recombinant Abietadiene Synthase from Abies grandis</i> , Org. Letters Vol. 2, No. 5, P. 573-576				03-2000
	U.	Shimada, Hiroshi, et al., <i>Increased Carotenoid Production by the Food Yeast Candida utilis through Metabolic Engineering of the Isoprenoid Pathway</i> , App. and Environ. Microbiology, Vol. 64, No. 7, p. 2676-2680.				07-1998
EXAMINER		DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		11/4/04				



PTO-1449		Application No. 10/041,018		Applicant(s) Seiichi P.T. Matsuda, et al.			
Information Disclosure Citation in an Application		Docket Number 002376.0992		Group Art Unit 1652	Filing Date 1-07-2002		
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	B.						
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	C.	Stephanopoulos, G., <i>Bioinformatics and Metabolic Engineering</i> , Metabolic Engineering 2(3): 157-158.					2000
	D.	Stofer Vogel, Brigitte, et al., <i>Abietadiene Synthase from Grand Fir (Abies grandis) cDNA Isolation, Characterization and Bacterial Expression of a Bifunctional Diterpene Cyclase Involved in Resin Acid Biosynthesis</i> , J Biological Chemistry, Vol. 271, No. 38: 23262-23268.					09-20-1996
	E.	Trapp, Susan C., et al., <i>Genomic Organization of Plant Terpene Synthases and Molecular Evolutionary Implications</i> , Genetics, 158(2):811-832.					06-2001
	F.	Wang, Chia-Wei, et al., <i>Engineered Isoprenoid Pathway Enhances Astaxanthin Production in Escherichia coli</i> , Biotech and Bioeng, Vol. 62, No. 2, 235-241.					01-20-1999
	G.	Wildung, Mark R., et al., <i>A cDNA Clone for Taxadiene Synthase, the Diterpene Cyclase That Catalyzes the Committed Step of Taxol Biosynthesis</i> , J. of Biological Chem., Vo. 271, No. 16: 9201-9204.					04-19-1996
	H.	Yamano, Shigeyuki, et al., <i>Metabolic Engineering for Production of B-Carotene and Lycopene in Saccharomyces cerevisiae</i> , Biosci. Biotech. Biochem., 58(6): 1112-1114.					1994
	I.						
	J.						
	K.						
	L.						
	M.						
	N.						
	O.						
	P.						
	Q.						
	R.						
	S.						
	T.						
	U.						
EXAMINER		DATE CONSIDERED				11/4/04	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							